



NDIA NIGHT OPS SYMPOSIUM 2000



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Agenda

- Purpose
- USMC Need For NVE
- Current Status
- Budgetary Constraints
- System Selection Criteria
- Summary



Purpose

- To provide the USMC's current capabilities and Near/Mid/Far Term NVE requirements.





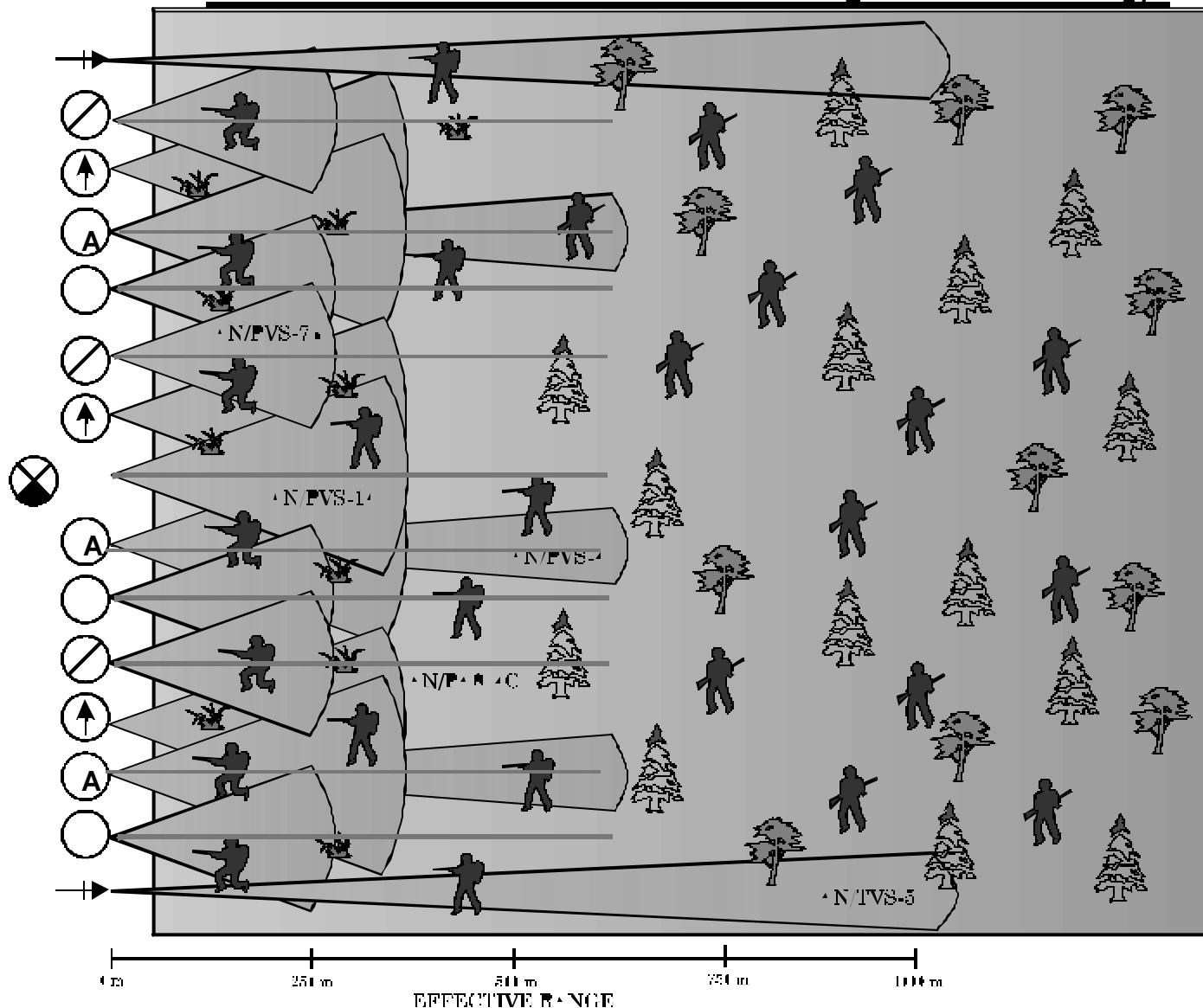
USMC Need For NVE

- US Marine Corps Master Plan
 - ROC 16: The capability to operate effectively at night, in all weather, and on an obscured battlefield.
 - Continue to pursue emerging technology to enhance systems for night and all-weather limited visibility conditions.
- US Marine Corps Warfighting Doctrine
- “Revised” Aided Battlefield Vision Implementation Plan (ABVIP)
- Night Vision Equipment Distribution Plan



Infantry Squad (Rein)

Near Term Capability





Infantry Squad (Rein)

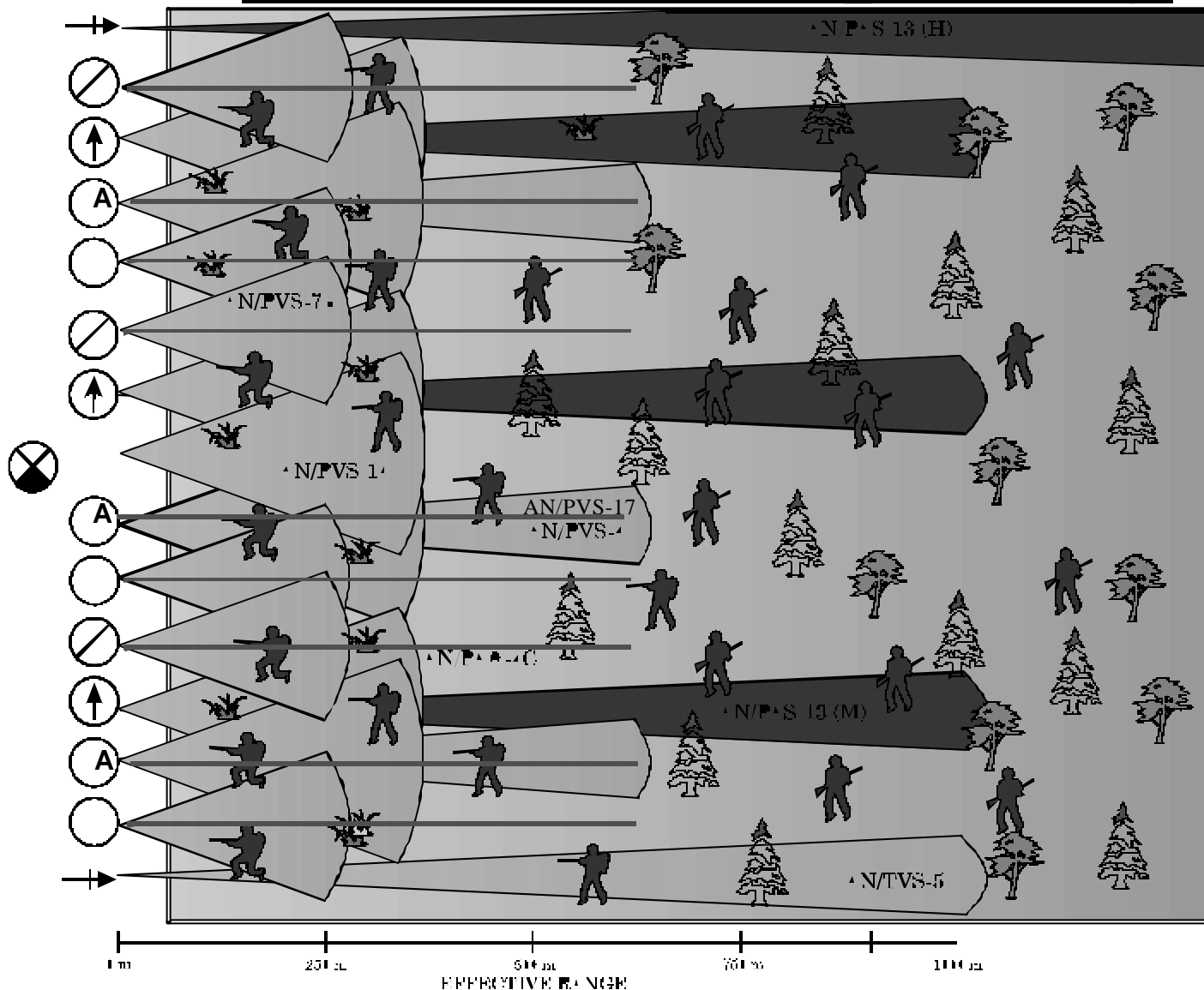
Near Term: FY00-FY 05

- Increase in Field of View
 - No decrease in current range or resolution
 - Preferred - increase in all
- Decrease system weight
- Manage weight and space claims (Location)
- Upgrade existing system platforms
(Includes Upgrade by Replacement)
- **Operational suitability is key driver!**



Infantry Squad (Rein)

Mid-Term Capability





Infantry Squad (Rein)

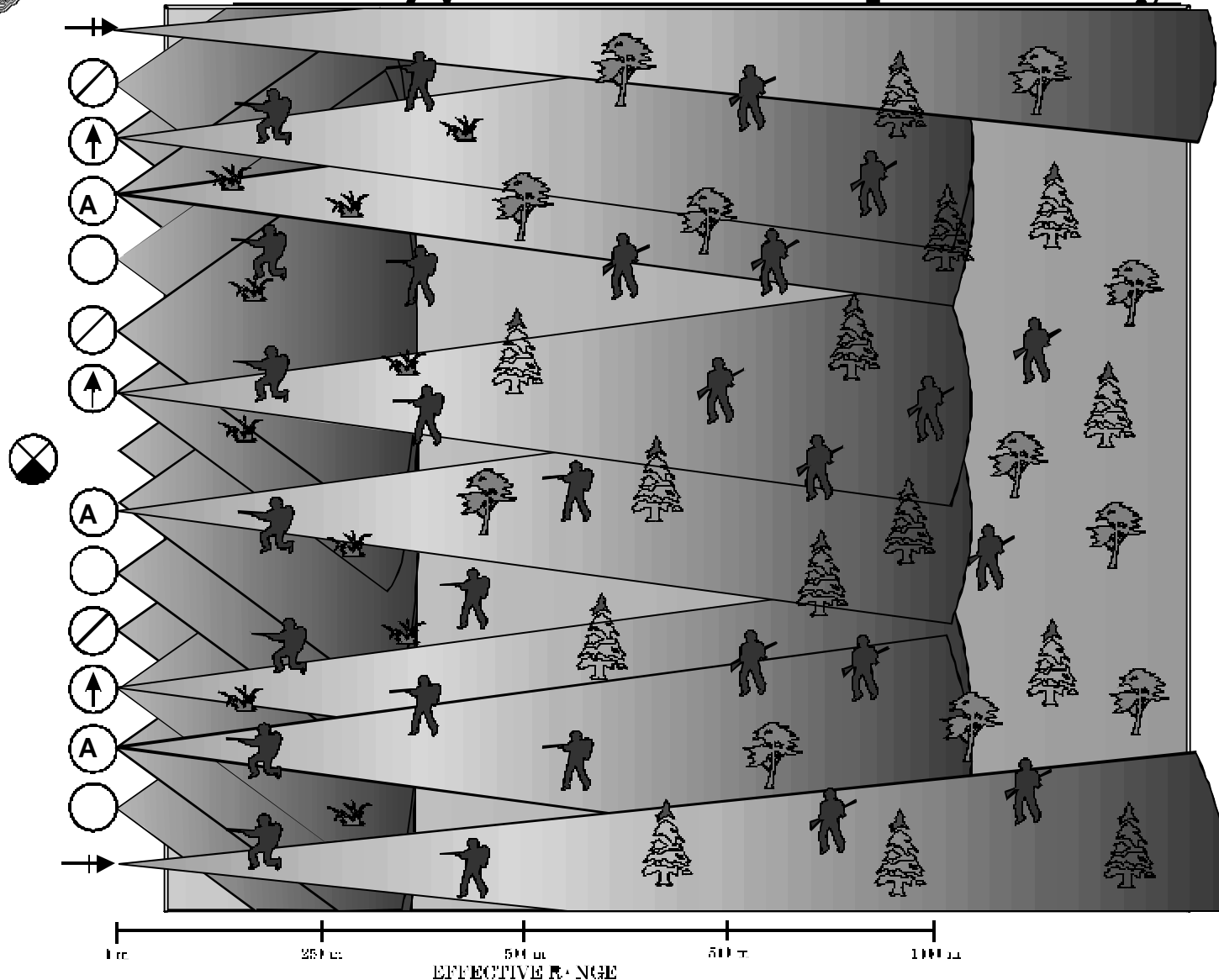
Mid-Term: FY05-FY10

- Day/Night integration (Anti-Blooming)
 - Thermal packaging for individual weapons (Thermal on SAW?)
 - Image fusion at the squad level
 - Incorporate auto-focus technology
 - Selectable sighting/observation capability (weapon/eye) to single display (HUD?)
 - Increased capability for Infantry
- Situational Awareness



Infantry Squad (Rein)

Long Term Capability





Infantry Squad (Rein)

Long Term: FY11-FY15

- Passive integrated weapons sighting technology (for all new and existing weapons systems)
- HUD w/see through capability (full peripheral vision)
- Multi-spectrum capability (Fused Imagery and built in Laser Rangefinder/Pointer/Designator)
- 24 hour/all weather sensor operation
- Enhanced or natural color vision modes



Infantry Battlefield Vision

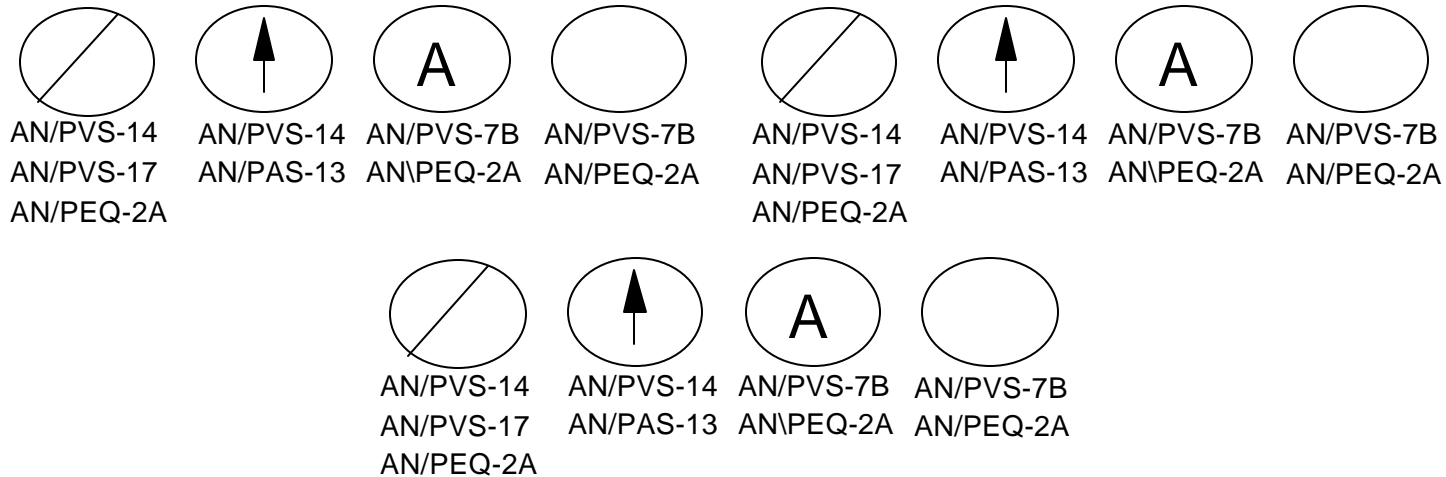
Current Fielding Status

- AN/PVS-7B/D
- AN/PVS-14
- AN/PVS-17 (Gen III Upgrade)
- AN/TVS-5A
- AN/PAQ-4C or AN/PEQ-2A
- AN/PEQ-4 MPLI
- TWS
- INOD
- 3X Mag Devices



Infantry Squad

NVE Distribution



Squad Night Vision Equipment:

7 AN/PVS-14	3 AN/PAS-13
6 AN/PVS-7B	3 AN/PVS-17
10 AN/PEQ-2A	



AN/PVS-7B Night Vision Goggles

- Gen III I₂ Technology
- Total of 39,841
- Fielded to Assistant Automatic Riflemen & Grenadiers





AN/PVS-14 Monocular, Night Vision Device

- Gen III I₂ Technology
- Total is 9,731
- Fielded to Squad Ldrs, Fire Team Ldrs, and Automatic Riflemen
- Helmet mounted or hand held





AN/PVS-17 Mini Night Sight

- Gen III I₂ Technology
- Total is 6,346
- Fielded to Fire Team Leaders
- Rifle Mounted





AN/TVS-5A Crew Served Weapon Night Sight

- Gen III I₂ Technology
- Total is 1,856
- Fielded to Weapons Platoons
- Heavy Machinegun Mounted





Improved Night/Day Observation/Fire Control Device (INOD)

- Allocated to M40A1
Sniper Rifles and M82A1A
Special Application Scoped
Rifles (SASR)
- Total is 584
- Will augment Unertl
Scope





3X Mag Device

- Magnifier that snaps on to AN/PVS-7B & AN/PVS-14
- MARCORSYSCOM is buying one for every 4th AN/PVS-14



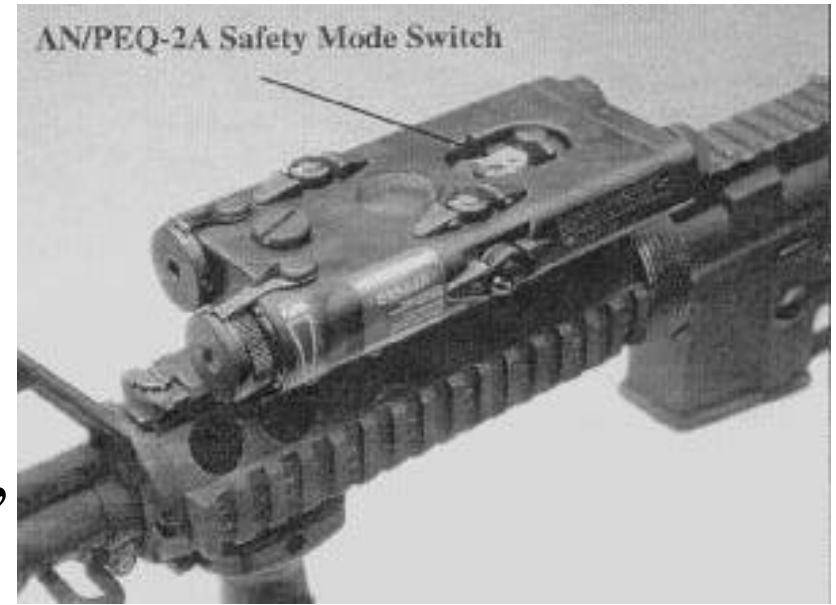


AN/PEQ-2A

Infantry Weapon Night

Targeting Device

- Rifle Mounted Infrared Laser Pointer
- Total is 18,700
- AN/PAQ-4C or AN/PEQ-2
- Allocated for Squad Ldrs, Fire Team Ldrs, Assistant Automatic Riflemen, and Grenadiers





AN/PEQ-4 MPLI

- Total is 315
- Fielded to FACs in GCE
- Used to Illuminate Targets for Close Air Support (CAS)



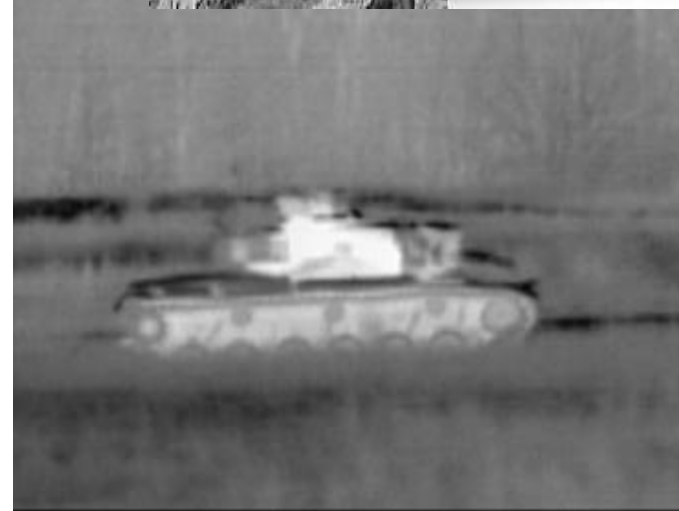


AN/PAS-13

Thermal Weapons Sight

(TWS)

- Augments I₂ devices
- Total is 6,017
- TWS (H) for M2 .50Cal, and Mk-19
- TWS (M) for M240G MG and M249 SAW
- Gen II Thermal Technology
- IOC is 3QFY02
- FOC is 2QFY06





Budgetary Constraints

- Field to trigger pullers first (Focused on GCE)
- Field to Small Unit Leaders (Focused on GCE)
- Redistribute older/lesser equipment to support elements





System Selection Criteria





Summary

- Current Status
- Near, Mid, & Long Term Direction
- Budget Constraints
- Selection Criteria
- Questions?

